the fluid through the leakages, a segmentor for segmenting the sensed vibrations into at least two spectral comparitor for comparing the amplitudes of the spectral bands with predetermined values to determine flow rate.

## Please add new claims 15-17 as follows:

A.Z

(New) Apparatus as claimed in claim 13 wherein the sensor includes a piezo-electric material.

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- Apparatus as claimed in claim 15 wherein the 16. sensor includes a PVDF film.
- Apparatus as claimed in claim 15 wherein the  $\frac{233504}{}$ sensor comprises one of a train gauge, geophone or hydrophone. Ray